

87. 315. 111. 112.  
Candles & Apparatus



GB-1854-01

A.D. 1854 . . . . . N° 101.

### Manufacture of Candles and Night Lights.

**LETTERS PATENT** to George Fergusson Wilson, of Belmont, Vauxhall, Managing Director of Price's Patent Candle Company, for the Invention of "**AN IMPROVEMENT IN THE MANUFACTURE OF CANDLES AND NIGHT LIGHTS.**"

Sealed the 18th March 1854, and dated the 16th January 1854.

**PROVISIONAL SPECIFICATION** left by the said George Fergusson Wilson at the Office of the Commissioners of Patents, with his Petition, on the 16th January 1854.

I, **GEORGE FERGUSSON WILSON**, of Belmont, Vauxhall, Managing Director of Prices Patent Candle Company, do hereby declare the nature of my said Invention for "**AN IMPROVEMENT IN THE MANUFACTURE OF CANDLES AND NIGHT LIGHTS**" to be as follows:—

It has been long known to chemists that castor oil, when treated with hyp-  
nitric acid or nitrous acid, or sulphurous acid, solidifies, and what is called  
10 palmine is produced; but such product of castor oil has not, I believe, ever  
been applied in the manufacture of candles and night lights; and my Invention  
has for its object the employment of palmine or its acid in such manufacture,  
either alone or in combination with other matters, suitable for being used in  
making candles and night lights. For this purpose I prefer to subject the  
15 palmine or its acid to washing and boiling in water, and then, when desired,  
to subject it to a suitable process to separate the more solid from the more  
fluid parts.

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*Wilson's Improvements in the Manufacture of Candles and Night Lights.*

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**SPECIFICATION** in pursuance of the conditions of the Letters Patent, filed by the said George Fergusson Wilson in the Great Seal Patent Office on the 15th July 1854.

**TO ALL TO WHOM THESE PRESENTS SHALL COME**, I, GEORGE FERGUSSON WILSON, of Belmont, Vauxhall, Managing Director of Prices Patent Candle Company, send greeting. 5

**WHEREAS** Her most Excellent Majesty Queen Victoria, by Her Letters Patent, bearing date the Sixteenth day of January, in the year of our Lord One thousand eight hundred and fifty-four, in the seventeenth year of Her reign, did, for Herself, Her heirs and successors, give and grant unto me, 10 the said George Fergusson Wilson, Her special licence that I, the said George Fergusson Wilson, my executors, administrators, and assigns, or such others as I, the said George Fergusson Wilson, my executors, administrators, and assigns, should at any time agree with, and no others, from time to time and at all times thereafter during the term therein expressed, should and 15 lawfully might make, use, exercise, and vend, within the United Kingdom of Great Britain and Ireland, the Channel Islands, and Isle of Man, an Invention for "**AN IMPROVEMENT IN THE MANUFACTURE OF CANDLES AND NIGHT LIGHTS**," upon the condition (amongst others) that I, the said George Fergusson Wilson, by an instrument in writing under my hand and seal, should parti- 20 cularly describe and ascertain the nature of the said Invention, and in what manner the same was to be performed, and cause the same to be filed in the Great Seal Patent Office within six calendar months next and immediately after the date of the said Letters Patent.

**NOW KNOW YE**, that I, the said George Fergusson Wilson, do hereby 25 declare the nature of the said Invention, and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement thereof (that is to say):—

It has been long known to chemists that castor oil, when treated with hyp-  
nitric acid, or nitrous acid, or sulphurous acid, solidifies, and what is called 30  
palmine is produced; but such product of castor oil has not, I believe, ever  
been applied in the manufacture of candles and night lights; and my Inven-  
tion has for its object the employment of palmine or its acid in such manufac-  
ture, either alone or in combination with other matters suitable for being used  
in making candles and night lights. For this purpose I prefer to subject the 35  
palmine or its acid to washing and boiling in water, and then, when desired, to  
subject it to a suitable process to separate the more solid from the more fluid  
part.

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*Wilson's Improvements in the Manufacture of Candles and Night Lights.*

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Having thus stated the nature of my said Invention, I will proceed to describe the manner of performing the same. And I would state that I prefer to employ palmine which has been manufactured or treated according to the Invention described in the Specification of Letters Patent granted to me on  
5 the same day as that on which the present Letters Patent were granted.

Palmine, particularly when used after pressing, is. I have found, a suitable material for hardening tallow and other fatty matters, which require it, when to be used in the manufacture of candles and night lights, and such matters may be melted and mixed together in proportions according to the degree of hard-  
10 ness desired to be obtained in the candle or night light material; and I also find that wax may have combined with it a quantity of palmine, with a view to reduce the cost of candles made from wax. Palmine may be thus used in place of or in combination with the matters which have heretofore been combined with wax when making candles or night lights. And I also employ  
15 palmine in the manufacture of composite candles and night lights, for which purposes I employ palmine with hard fat acid, in the proportions by preference of about half and half, or, for cheaper composite candles, I employ the palmine and soft acid fatty matters, such as distilled acidified palm oil, or a combination of these and unacidified fatty matters, the fatty acid matter being in the proportion of about half. I would, however, remark, that although I have thus  
20 stated proportions, I do not confine myself thereto; and although I generally employ palmine, its acid may be used in place thereof with unacidified fats or oils or with other fatty acids. What I claim is, the application of the product of castor oil, called palmine and palmic acid, in the manufacture of  
25 candles and night lights.

In witness whereof, I, the said George Fergusson Wilson, have hereunto set my hand and seal, this Fourteenth day of July, in the year of our Lord One thousand eight hundred and fifty-four.

GEO. F. WILSON. (L.S.)

Witness,

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LONDON:

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,  
Printers to the Queen's most Excellent Majesty. 1854.

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